

# **MONTANA BOARD OF PROFESSIONAL ENGINEERS & PROFESSIONAL LAND SURVEYORS**

**Land Surveying Curriculum**  
**Approved by the Full Board on May 12, 2005**

## **Basic Courses: Minimum 33 semester credits**

English: 6 credits  
English composition  
English writing  
Public speaking

Math: 7 credits  
Algebra  
Trigonometry

Drafting: 6 credits  
Survey graphics  
CADD drawing

Basic Science: 9 credits  
Computer hardware,  
Computer software  
Introduction to GPS  
Introduction to GIS  
Physical science

Humanities, Social Science or approved AAS benchmarks: 5 credits

## **Surveying Techniques, Principles and Practice: Minimum 27 semester credits**

Basic course topics:

1. Basic surveying techniques.
2. Surveying calculations.
3. Principles of creating contour maps by field measurements and by photogrammetry.
4. In depth study of the Public Land Survey System (PLSS).
5. Legal principles of property boundaries.
6. Writing and interpreting legal descriptions.
7. Principles and practices of construction surveying.
8. Land development design.
9. Montana laws concerning surveying.

The Board of Professional Engineers and Professional Land Surveyors have approved the following College/University's land-surveying curriculum:

**Flathead Valley Community College - Associates in Applied Science in Surveying**

**Montana State University – Bozeman – Construction Engineering Technology Bachelor of Science Degree with 27 semester hours as indicated above.**

Other curriculum will be considered by the board on a case by case basis. To be approved the land surveying curriculum must be taught by licensed or registered land surveyors.